magicolor® 2350 PJL Reference Guide

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Manual Notice

This guide provides an introduction to the PJL commands that the magicolor 2350 printer supports.

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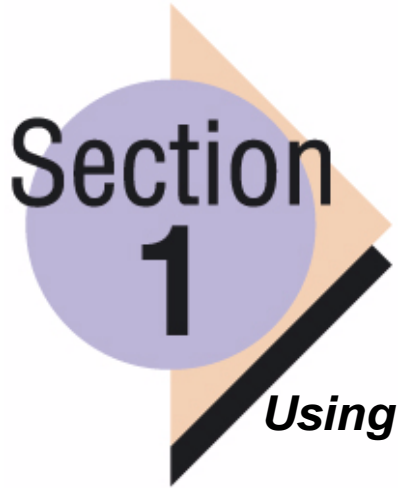

Using PJL Commands

In Section 1...

- Chapter 1.1 — Introduction
  Describes PJL, features, and an overview of the commands available for your printer.
- Chapter 1.2 — Conventions
  Describes the typographical and context conventions that must be used when working with the PJL command set. Also includes information about variables and language configuration.
- Chapter 1.3 — Issuing PJL Commands
  Identifies the methods that can be used to send PJL commands to your printer.

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Introduction— 1.1

About PJL

Printer Job Language (PJL) enables advanced users and software application developers to send commands to the printer and receive printer status. This allows you to control the printer's configuration for a print job and to establish two-way communications with the printer. In addition, PJL commands can be used to change the printer's control panel settings and to change the printing language from within applications.

In This Guide

This PJL Reference Guide contains information about the PJL commands that are supported by your printer. Section 1 provides a general introduction to PJL. Section 2 contains the full list of PJL commands supported by your printer and describes the function of each command. If you have experience using PJL commands, you can skip the remainder of this Section and begin with Section 2.

For customers who have older Crown printers, we've also included a PJL/DOC (Document Option Command) equivalency matrix at the end of Section 2. (DOC was supported by earlier Crown printers.) You can use this matrix to find the PJL command that is most equivalent to a DOC entry.

Online Benefits

If you're viewing this document using Acrobat Reader, you can take advantage of the hyperlinks that we've provided in the Contents and Index pages to quickly jump to the topics that interest you. Just click on any Contents or Index entry to open the linked page.

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See the Acrobat Reader online help for information about the document navigation tools provided in the Reader.

Visit our website (printer.konicaminolta.net/support) for product and documentation updates for your printer.

Overview of PJL

Using PJL to configure or to communicate with your printer requires the use of PJL commands, which may include the use of PJL environmental variables, modifiers, and parameter values to define the commands given.

Supported PJL Command Set

The following lists identify the PJL commands that are supported by your KONICA MINOLTA printer.

Additional information about each command is given in Section 2.

Kernel and Job Control Commands

COMMENT
DEFAULT
ENTER
EOJ
INITIALIZE
JOB
PJL
RESET
SET
UEL

Status or Information Request (Readback) Commands

DINQUIRE
ECHO
INFO
INQUIRE
USTATUS
USTATUSOFF

Environmental Variables

Environmental variables are used with the PJL commands to provide printer-specific controls and additional communication tools your printer can understand.

The following lists identify the common PJL environmental variables that are supported by your KONICA MINOLTA printer.

The full list of PJL variables, with additional information about each variable, is given in Section 2.

Some PJL command variables may appear in more than one of the following categories.

Accounting Information Variables

CHARGENUMBER
HOST
JOBNAME
USERNAME

Document/Printer Control Variables

CPLOCK
CUSTOMSIZEX
CUSTOMSIZEY
EMAILADDRESS
HELDJOBTIMEOUT
HOLD
HOLDKEY
HOLDTYPE
INTRAY1SIZE (read-only)
INTRAY2SIZE (read-only)*
JOB
JOBID
LANG
LOWTONER
MODELNAME (read-only)
NOTIFY

OUTBIN
OUTTONER
PASSWORD
PERSONALITY
POWERSAVE
POWERSAVETIME
REPRINT
TIMEOUT
TRAYMAPPING
USERNAME

Notes: *Optional lower feeder unit and Tray 2 required.

Document Formatting Variables

BINDING*
BITSPERPIXEL
COLORSEPARATION
COLORUCR
COPIES
DUPLEX*
FORMLINES
JOB
LANGUAGE
MEDIASOURCE
MEDIATYPE
ORIENTATION
PAPER
PLANESINUSE
PRINTQUALITY
QTY**
RESOLUTION
TRAYCHAIN

Notes: *With optional duplexer.
**With optional hard disk.

PCL Variables

FONTNUMBER
FONTSOURCE
LINETERMINATION
OPTIMIZEFOR
PCLLINETERMINATION
PITCH
PTSIZE
SYMSET

Lineprinter Variables

AUTOWRAP
CHARMAP
FONTNAME
LINESPERPAGE
LPLINETERMINATION
LPORIENTATION
MARGINS
NUMBERLINES
TABS

PostScript Variables

PRTPSERRS
COLORMATCHING
DESTINATIONPROFILE
KPRESERVE
RGBBLACK
RGBSRCPROFILE
SIMULATIONPROFILE
SIMINRGBLINKS

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Conventions— 1.2

Introduction

Conventions denotes two meanings: 1) How this manual uses character and document formatting to define the PJL commands and variables (see Document Conventions), and 2) How you should enter PJL command text in your application to ensure the printer recognizes the commands correctly (see “PJL Command Syntax” on page 11).

Document Conventions

The text describing the available PJL commands and variables in Section 2 appear in tables like the one shown below.

Command or Variable	**Command (or variable) Name**
Syntax	`Command Syntax`
Response Syntax	`Response Syntax`
Description	Command description
Notes	*Notes about the command or its usage.*

- ☑ The first row identifies the PJL command or environmental variable defined in the table.
- ☑ The Syntax row displays the correct method of entering the command and any required or optional arguments that are or can be associated with the command. Unless otherwise noted, all of the text appearing in this row must be entered on the same line of the PJL job. See the PJL Command Syntax section for additional information.
- ☑ Response Syntax identifies the syntax that the printer uses in its responses to queries.
- ☑ The Description row defines the command’s function.
- ☑ Notes contains any additional information, tips, or cautions that may help you when applying the defined command or its arguments.

PJL Command Syntax

The characters and symbols used when identifying the syntax of PJL commands is defined in the following table:

[ ]	Square brackets enclose any optional arguments that can be used in conjunction with the command. If you use optional arguments, don't type the brackets.
< >	Angled brackets enclose control characters. When these appear in the Syntax, enter the control code only (don't type the <> characters). See the next section for control character definitions.
|	Vertical bars appear in command syntax to indicate that there are multiple optional parameters.
CAPS	The complete @PJL command must be in uppercase.

Control Character Definitions

This table defines the control characters used in PJL command syntax.

Control Character	Character Description	Hex Code	ASCII Code
<CR>	Carriage Return	0x0D	13
<ESC>	Escape	0x1B	27
<FF>	Form Feed	0x0C	12
<HT>	Horizontal Tab	0x09	9
<LF>	Line Feed	0x0A	10
<SP>	Space	0x20	32
<UEL> *	Universal Exit Language	0x1B 25 2D 31 32 33 34 35 58	27 37 45 49 50 51 52 53 88
Notes:	*See "Universal Exit Language (<UEL>) Usage" on page 12 for complete UEL usage information.		

Universal Exit Language (<UEL>) Usage

The <UEL> Kernel Command signals to the printer that a PJL job needs to be processed or has completed processing. This allows the printer to switch between PJL and its default printing language (for example, PostScript). The following bullets identify the rules you should follow when using the <UEL> Command:

- Always start and end all PJL jobs with the <UEL> Command. The Syntax for this command is

  ```
  <ESC>%-12345X
  ```

- The <UEL> Command at the beginning of the PJL job must be immediately followed by the @PJL prefix. No spaces or other characters can be placed between the <UEL> and the @PJL characters. For example,

  ```
  <ESC>%-12345X@PJL
  ```

  Following the text shown in the above example, you can continue with a <CR> <LF> to begin another PJL command on the next line, or you can use the @PJL on this line to start another PJL Command.

- No characters should follow the <UEL> placed at the end of the PJL job. Any character after the <UEL> is seen and handled as a new job.

Additional Syntax Rules

- The <LF> (Line Feed) control code must be used at the end of each PJL command to terminate the line.

  The only exception to this rule is the <UEL> command, which does not require the <LF> control code.

- The <CR> control character is optional, but can be useful when spacing is needed between command lines (no blank lines are allowed in PJL jobs). Always place the optional <CR> before the <LF>, which is used to terminate the line.
- A space (ASCII 32, Hex 0x20) or tab (ASCII 9, HEX 0x09) is required between the @PJL prefix and the PJL command name.
- A space (ASCII 32, Hex 0x20) is required between the PJL command name and command arguments.

Variables and Values

Many PJL commands require the use of variables to assign values to the command parameters. PJL commands support the use of alphanumeric variable characters when the following rules are applied:

Alpha Characters

- All variables must begin with an alpha character.
- Do not use spaces in variables.
- Alpha characters must be Roman-8 uppercase (characters 65-90).

Numeric Characters

- Do not begin variables with a numeric character.
- If a decimal is used in a numeric value, a number must precede the decimal point, and only one decimal point is allowed in a value.
- Do not use commas in numeric values.
- Numeric characters must be Roman-8 numbers 0-9 (characters 48-57).

Strings

- Strings are not used in variables but may be used as values.
- Strings can use any combination of the alpha and numeric characters that follow the guidelines described above.
- Strings must be placed within double quotation marks.
- Quotation marks cannot be used as part of the string.
- Control characters are not allowed in strings.

Language Configuration

In order for the printer to correctly interpret the PJL commands that are sent to it, the printer must recognize or be told which language to use to process the job. Three methods of language switching can be used.

- **Explicit Language Selection**—This is the recommended method of switching languages and involves the use of the ENTER LANGUAGE command to notify the printer of the language to be used.
- **Implicit Language Selection**—If the ENTER LANGUAGE command is not used, the printer uses the language set as the default language. This method works fine as long as the default language is the same language

as the job sent to the printer. If the PERSONALITY variable is set to AUTO, and no ENTER command is received, Context Language Selection (described next) is used instead of Implicit Language Selection. This variable can be set through PJL or user interface (operator control panel [System Default/Emulations/Default menu], CrownView, and PageScope Light).

- **Context Language Selection**—When the printer is configured to automatically select the language of incoming jobs and the ENTER LANGUAGE command is not used to identify the job language, the printer samples the incoming data and chooses a language based on its interpretation of the sampled data.

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1.3 Issuing PJL Commands—

Introduction

The following chapters in this guide describe the PJL commands, their variables, and their functions. This chapter looks at the common methods of sending the PJL command jobs to the printer and receiving readback responses from the printer.

Sending PJL Commands to the Printer

The three most common methods used to send PJL commands to the printer are

- Creating an ASCII file containing the PJL commands and copying this file to your printer. Use this method if you want to send configuration changes to the printer and don't require readback responses from the printer.

  You can also modify your Autoexec.bat file to copy the ASCII file to the printer each time you boot your workstation.

- Embedding PJL commands in an application during development. This method allows application developers to take advantage of the commands and readback status of the printer to customize application functions that interact with the printer.

  Due to the extensive variations in application development, this method is not documented in detail in this Guide.

- Using a utility software application that handles the bidirectional communication necessary to send and receive information from the printer.

Copying ASCII Files to the Printer

This section describes one method of creating and sending an ASCII file containing PJL commands to your printer from a workstation running a Windows Operating System.

1 From the Start menu, choose Run.

2 Type `edit` and then select OK.

The MS-DOS Editor opens.

3 Enter the following on the first line of the new file you are creating.

```
<ESC>%-12345X@PJL
```

To create the <ESC> character, hold down the CTRL *key and select the* P *key, and then press the Esc key.*

4 On the following lines, enter the PJL commands you want to send to the printer. See the additional chapters in this guide for information about the PJL commands supported.

5 On the last line of your file, enter

```
<ESC>%-12345X
```

6 Save the file.

7 Copy the file you just saved to the printer using the DOS `copy/b` command.*

**If you check accounting, this example shows two jobs due to the <CR><LF> that the MS-DOS editor automatically adds after the <UEL>.*

Including PJL Commands in Applications

By including PJL commands in the application that you're developing, you can take control of most printing configuration settings and retrieve printer information without having to call on another application.

Using Utility Software

Some utility software allows you to communicate with your printer, including sending PJL commands and receiving status readback. Depending on your utility application, you may be able to perform one or more functions using the utility's built-in tools rather than directly entering PJL commands.

Example: Status Monitor

This utility, which comes with your printer on the CD-ROM, uses the PJL readback commands to monitor and display the printer's current status. This utility provides additional features but serves as a good example of practical use of PJL commands in an application.

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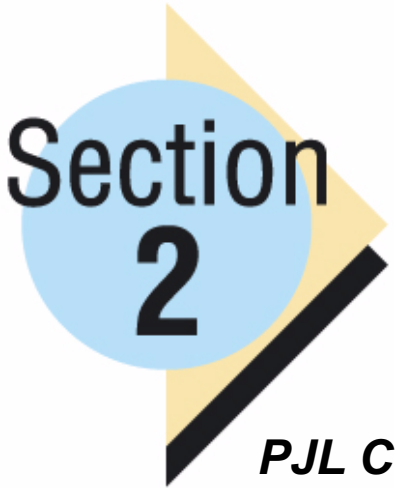

PJL Commands

In Section 2...

- Chapter 2.1 — PJL Commands
  The full listing of PJL commands and Variables supported by your printer.
- Chapter 2.2 — Status Codes
  Identifies the printer status messages and their corresponding status codes.
- Chapter 2.3 — PJL/DOC Matrix
  Provides DOC users a cross-reference for PJL commands that have the basic functionality of DOC commands.

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PJL Commands— 2.1

Introduction

The PJL commands supported by your printer are identified and described in this chapter. PJL commands are identified first and then followed by the definition of environmental variables.

The commands and variables in the following sections are listed by name and in alphabetical order.

Commands

Command	COMMENT
Syntax	`@PJL COMMENT remarks [<CR>]<LF>`
Description	Comments can be used to insert information within the lines of a PJL job. This information has no effect on the printer or on any other commands used in the PJL job. Information in Comments are primarily used to contain notes about the preceding or following commands used in the job.
Notes	*Remarks can be any text using Roman-8 characters (Codes 33-255).* *Remarks must start with a printable character.*

Command	DEFAULT
Syntax	`@PJL DEFAULT [LPARM : personality] variable = value [<CR>]<LF>`
Description	This command can be used to change the User Default settings of the printer. DEFAULT is used with environmental variables to set the user default value of a printer parameter. See the next section for a listing of variables that are available for your printer.
Notes	*The User Default Settings are also configurable from the printer's control panel. Using the DEFAULT command does not affect the Factory Default Settings of the printer.* *Changes to the Default Settings are not activated until a RESET command has been executed, the job ends, or a <UEL> command is received. See the RESET command on page 27 for more information.*

Command	**DINQUIRE**
Syntax	`@PJL DINQUIRE [LPARM : personality] variable [<CR>]<LF>`

Response Syntax	`@PJL DINQUIRE variable <CR><LF>`
	`value<CR><LF>`
	`<FF>`

Description	This command requests the current User Default Setting value of the specified variable.
Notes	*The printer responds with a question mark (?) if the variable identified in the command is not supported by the printer.*

Command	**ECHO**
Syntax	`@PJL ECHO [<words>] [<CR>]<LF>`
Response Syntax	`[<words>]`
Description	This command causes the printer to respond to the host computer with the text sent to it (<`words`>). This allows you to synchronize requests for information and the printer responses.
Notes	*Your application needs to be able to handle printer responses that may be in response to queries that were executed prior to the last request. For example, if an application sends a query but the host is shut down or interrupted before the response is sent, the printer attempts to deliver the response the next time communication is reestablished. You can use the ECHO command to validate that the message received is in response to the query sent to the printer.*

Command	ENTER
Syntax	`@PJL ENTER LANGUAGE = personality [<CR>]<LF>`
Description	This kernel command is used when setting the printer language for the language used in the current print job. *Personality* is the language of the print job, such as Lineprinter, PCL, or PostScript.
Notes	*Immediately following the <LF> code on the ENTER command line, the printer assumes the language specified by the personality to process the current print job. The printer will continue to treat the job in the new language until another ENTER command, a <UEL> command is found, or a print job end of file is found.*

Command	EOJ
Syntax	`@PJL EOJ [NAME = "job name"] [<CR>]<LF>`
Description	This command indicates the end of the current print subjob. The optional Name variable should be used if the JOB command used this option to name the print subjob.
Notes	*This command must be used in conjunction with the JOB command. Don't use the JOB or the EOJ command separately.*

Command	**INFO**
Syntax	`@PJL INFO category [<CR>]<LF>`
Description	This command is used to request information from the printer. The *category* is the component that you want information about. The following items are the categories that your printer supports in response to the INFO command: **ID**—returns the printer model number. **CONFIG**—provides the current printer hardware configuration. **MEMORY**—provides the current amount of free memory space available to the printer. **PAGECOUNT**—returns the total number of pages that the printer has printed. **STATUS**—returns the current status of the printer. See Chapter 2.2 “Status Codes” beginning on page 59 for a list of the status codes returned by your printer. **VARIABLES**—provides all supported variables and the values that each variable supports. **USTATUS**—returns the unsolicited status variables (variables that automatically send status whenever their status changes), their optional values, and their current values. See Chapter 2.2 “Status Codes” beginning on page 59 for a list of the status codes returned by your printer.
Notes	*Use just one category per INFO command line. If the printer doesn’t support a category specified in the INFO command line, the response will be a question mark (?).* *Items that are not supported by the printer’s current configuration are not listed in the printer’s configuration response for information (@PJL INFO CONFIG). For example, if the duplex unit isn’t installed, the duplex options don’t appear in configuration query results.*

Command	**INITIALIZE**
Syntax	`@PJL INITIALIZE`
Description	This command is used to reset the PJL variables to their factory settings.
Notes	*To reset the PJL variables to the User Default values, use the DEFAULT command instead of the INITIALIZE command.*

Command	**INQUIRE**
Syntax	`@PJL INQUIRE [LPARM : personality] variable [<CR>]<LF>`

Response Syntax	`@PJL INQUIRE [LPARM: personality] variable <CR><LF>`
	`value <CR><LF>`
	`<FF>`

Description	This command requests the current value of a PJL variable. LPARM is used to request status on a particular language-specific variable, such as PCL fonts.
Notes	*A question mark (?) is returned if the printer doesn't support the variable specified in the INQUIRE command line.* *The @PJL INFO VARIABLES command returns the status of all variables.*

Command	**JOB**
Syntax	`@PJL JOB [NAME = " job name"][START= first page][END = last page][PASSWORD = number ][DISPLAY = " display text"][<CR>]<LF>`
Description	The JOB command signifies the beginning of a new PJL subjob to the printer. This command should be used with the EOJ command to frame the PJL job to prevent multiple PJL subjobs from being treated as one job.
Notes	*The default settings for the optional parameters shown in the Syntax are* NAME= N/A START=1 END= All pages PASSWORD=0 DISPLAY= N/A *The use of these parameters is optional.* *Always use the JOB command with the EOJ command.*

Command	**PJL**
Syntax	`@PJL`
Description	This command signals the printer to use its PJL parser to interpret the following command lines.
Notes	*This command must always immediately follow the <UEL> command (with no white space between these two commands).*

Command	**RESET**
Syntax	`@PJL RESET`
Description	Resets the command settings to the User default settings.
Notes	*The SET and RESET commands affect only the current job.*

Command	**SET**
Syntax	`@PJL SET [LPARM : personality] variable = value [<CR>]<LF>`
Description	Sets the current values until the next reset is received. If a UEL, JOB, EOJ, INITIALIZE, or RESET command is received, the default settings of the SET command are cleared.
Notes	*The SET and RESET commands affect only the current job.*

Command	**UEL**
Syntax	`<ESC>%-12345X`
Description	Universal Exit Language (UEL) signals the printer to exit the current printer language and begin PJL dialog.
Notes	*See "Universal Exit Language (<UEL>) Usage" in chapter 1.2 for more information.*

Command	USTATUS
Syntax	`@PJL USTATUS variable = value [<CR>]<LF>`
Response Syntax	`@PJL USTATUS variable <CR><LF>` `[1 or more lines of printable characters or <WS>* followed by <CR><LF>]<FF>`
Description	Enables unsolicited status readback. Unsolicited status is an automatic response sent by the printer whenever the status is changed. Variables allowed are **DEVICE**—Response when device status changes. Choices are ON, OFF, and VERBOSE. **JOB**—Response when the print job is started, completed or canceled. Choices are ON and OFF. **PAGE**—Response whenever a page is fed into the output tray. Choices are ON and OFF. **TIMED**—Sets up a timed interval between automatic status responses. Choices are 0 and 5 to 300 seconds. 0 is the default (one status is returned).
Notes	**<WS> stands for white space.* *The VERBOSE setting returns all PJL parser errors and warnings and should be used only during application development.* *USTATUS DEVICE=ON allows the printer to send responses when any status changes occur.*

Command	USTATUSOFF
Syntax	`@PJL USTATUSOFF [<CR>]<LF>`
Description	Turns off all unsolicited status settings.
Notes	*You can use the USTATUS command to turn off individual parameters.*

Environmental Variables

Environmental variables are used in conjunction with other PJL commands to control printer configuration and to retrieve specific information from the printer. See the previous section for a description of the PJL commands that your printer supports.

Changing Printer Environment Parameters

The printing environment is defined as the current printer configuration. Environmental variables are used to configure the printer's parameters in the printing environment. There are 4 types of printing environments that you will be working with when using PJL commands:

- **Modified**—This environment is established when the ENTER LANGUAGE command is sent to the printer to change the printer language. It can be changed only by the emulation.
- **PJL**—This environment consists of the configuration changes established by the parameters sent in the PJL command lines for the current job. Anything set here can be overridden by emulation.
- **User Default**—User default configurations occur when one or more of the Factory default configuration settings are changed and saved as the default printer configuration. These changes can be made and saved via the printer's controls panel, using a printer management utility application (for example, PageScope Light), or by using the DEFAULT command. Typically, the User default environment is configured to benefit the majority of users in a network to prevent making repetitive changes. This can be changed by PJL, emulation, and user interface.

Factory Default—This environment consists of the configuration settings that are set by the printer manufacturer. Factory default settings are permanent and can be applied at any time using the INITIALIZE command. Factory default can be overridden by user interface, PJL, or emulations.

Language Specific Variables

Additional modifiers are included in the PJL variable set to allow you to make changes to printer parameters that are specific to the language used by the printer.

LPARM

The LPARM modifier is used to modify printer configuration that affects the selected language. For instance, when PCL language is selected, you can modify the PCL-specific parameters using the LPARM modifier.

The language-specific variables for each supported language are shown in the following table.

Lineprinter-specific	PCL-specific	PostScript-specific
AUTOWRAP	FONTNUMBER	COLORMATCHING
CHARMAP	FONTSOURCE	KPRESERVE
FONTNAME	FORMLINES	PRTPSERRS
LINESPERPAGE	LINETERMINATION	RGBBLACK
LPLINETERMINATION	PCLLINETERMINATION	RGBSRCPROFILE
LPORIENTATION	PITCH	SIMINRGBLINKS
MARGINS	PTSIZE	SIMULATIONPROFILE
NUMBERLINES	SYMSET	
POINTSIZE		
TABS		

The following pages contain the Environmental Variables that are supported by your printer.

Variable	BINDING
Choices/ Range	LONGEDGE SHORTEDGE
Default	LONGEDGE
Description	Controls the duplex settings that are available. Use this variable with the Duplex variable. Only supported with optional duplexer.

Variable	BITSPERPIXEL
Choices/ Range	1 4
Default	4
Description	Used to identify the contone bits per pixel depth. 1 — 1 bit per pixel 4 — 4 bits per pixel

Variable	CHARGENUMBER
Choices/ Range	String (up to 8 printable characters)
Default	<N/A>
Description	Used to identify the charge code used for accounting purposes.

Variable	COLORSEPARATION
Choices/ Range	NO YES
Default	NO
Description	Used to identify 4-plane color separation. If set to YES, then 4 planes are used. If set to NO, then the normal plane job prints.

Variable	COLORUCR
Choices/ Range	NORMAL ALTERNATE
Default	NORMAL
Description	Used to identify the Undercolor Removal (UCR) setting. If set to NORMAL, then UCR is applied to every scanline. If set to ALTERNATE, then UCR is applied to every other scanline.

Variable	COPIES
Choices/ Range	1-999
Default	1
Description	Controls the number of uncollated copies that are printed. Use the QTY variable for collated copies.

Variable	CPLOCK
Choices/ Range	OFF ON
Default	OFF
Description	Controls the locking of the printer's control panel. When CPLOCK=ON, operators cannot change the printer configuration via the printer's control panel keys.

Variable	CUSTOMSIZEX
Choices/ Range	99600000-226800000
Default	220560900 fundamental units (8.27" or 210 mm)
Description	Sets the short edge size of custom media.
Notes	1,050,000 fundamental units=1 millimeter; 26,670,000 fundamental units=1 inch.

Variable	CUSTOMSIZEY
Choices/ Range	155400000-373800000
Default	220560900 fundamental units (8.27" or 210 mm)
Description	Sets the long edge size of custom media.
Notes	1,050,000 fundamental units=1 millimeter; 26,670,000 fundamental units=1 inch.

Variable	DUPLEX
Choices/ Range	OFF ON
Default	OFF
Description	Controls the duplex settings that are available. When set to ON, duplex printing is enabled. Use this variable with the BINDING variable. Only supported with optional duplexer.

Variable	EMAILADDRESS
Choices/ Range	String (up to 129 printable characters--enclose with double-quotes)
Default	<N/A>
Description	Sets the email address for job notification.

Variable	FORMLINES
Choices/ Range	5-128
Default	60
Description	Controls the number of lines for PCL pages. This variable is automatically adjusted if the PAPER or the ORIENTATION variables are changed.

Variable	HELDJOBTIMEOUT
Choices/ Range	DISABLED ONEHOUR FOURHOURS ONEDAY ONEWEEK
Default	DISABLED
Description	Controls the amount of time that passes before a Proof then Print job is automatically deleted from the printer.

Variable	HOLD*
Choices/ Range	OFF ON STORE PROOF
Default	*<N/A>*
Description	Controls the Job Retention feature of the printer. When this variable is set to ON, all copies are printed and the job is stored on the printer's hard disk. A job that is STORED is saved to the printer's hard disk. PROOF indicates that the printer is to print one copy of the job and hold the remaining copies until receiving additional commands through the printer's control panel keys. After printing the additional copies of a PROOF job, the job is removed from the printer.
Notes	*Refer to "Job Retention Options" on page 200 in the *Reference Guide* for Retain job use.

Variable	HOLDKEY*
Choices/ Range	0000-9999
Default	<N/A>
Description	This variable contains the password for secure print jobs. To use this variable, set the HOLDTYPE variable to PRIVATE. *By default, all jobs are PUBLIC and do not require a password.*
Notes	*Refer to “Job Retention Options” on page 200 in the *Reference Guide* for Retain job use.

Variable	HOLDTYPE*
Choices/ Range	PUBLIC PRIVATE
Default	<N/A>
Description	Controls the security level of a job. See the HOLDKEY variable for additional information.
Notes	*Refer to “Job Retention Options” on page 200 in the *Reference Guide* for Retain job use.

Variable	HOST
Choices/ Range	String (up to 16 printable characters -- enclose with double-quotes)
Default	<N/A>
Description	Identifies the Host Name used for accounting purposes.

Variable	HPPROFILE
Choices/ Range	NONE SRGB
Default	SRGB
Description	This variable specifies if using RGB sim links or not.

Variable	INTRAY1SIZE	
Choices/ Range	A4 A5 B5 C5 C6 CHINESE16K CHINESE32K CHOKEI3 CHOKEI4 COM10 CUSTOM DL EXECUTIVE FOLIO FOOLSCAP GOVTLEGAL GOVTLETTER JISB5 JPOST LEGAL LETTER MONARCH SPFOLIO STATEMENT UKQUARTO	
Default	110 Volt	LETTER
	220 Volt	A4
Description	Identifies the media size currently installed in tray 1. This variable is read-only.	

Variable	INTRAY2SIZE	
Choices/ Range	A4 LETTER	
Default	110 Volt	LETTER
	220 Volt	A4
Description	Identifies the media size currently installed in tray 2. This variable is read-only.	

Variable	JOBID
Choices/ Range	OFF ON
Default	<N/A>
Description	Enables or disables the job ID that is returned in the status readback.

Variable	JOBNAME
Choices/ Range	String
Default	<N/A>
Description	Identifies the name of a Proof then Print job. *This is not the NAME variable value assigned to jobs.*

Variable	LANG
Choices/ Range	CZECH ENGLISH FRENCH GERMAN ITALIAN PORTUGUESE SPANISH
Default	ENGLISH
Description	Controls the default language displayed in the printer's control panel and used for any unsolicited status readback.

Variable	LOWTONER
Choices/ Range	STOP CONTINUE
Default	CONTINUE
Description	Controls the way the printer treats a Low Toner status. If STOP is the chosen value, when a Low Toner condition occurs the printer will go offline until receiving additional commands from the printer's control panel. If CONTINUE is chosen, the printer remains online when a Low Toner condition occurs.

Variable	LPARM:LINEPRINTER AUTOWRAP
Choices/ Range	OFF ON
Default	ON
Description	Enables or disables automatic text wrapping when the right margin is reached.

Variable	LPARM:LINEPRINTER CHARMAP
Choices/ Range	ASCII EBCDIC
Default	ASCII
Description	Selects the character map.

Variable	LPARM:LINEPRINTER FONTNAME
Choices/ Range	String Any valid PostScript font name.
Default	"Courier"
Description	Controls the font to be used for the current print job. All printer-resident fonts can be used.

Variable	LPARM:LINEPRINTER LINESPERPAGE
Choices/ Range	1-128
Default	60
Description	Identifies the number of lines to print on a page before automatic page eject.

Variable	LPARM:LINEPRINTER LPLINETERMINATION
Choices/ Range	CRISCRLFISLF CRISCRLFLFISLF CRISCRLFISCRLF CRISCRLFLFISCRLF
Default	CRISCRLFLFISLF
Description	Sets the line termination value.

Variable	LPARM:LINEPRINTER LPORIENTATION
Choices/ Range	LANDSCAPE PORTRAIT
Default	PORTRAIT
Description	Controls the default page orientation.

Variable	LPARM:LINEPRINTER TOPMARGIN
Choices/ Range	0–79200 centipoints (1 centipoint=1/7200 inches or 0.003528 mm)
Default	7200 (= 1 inch or 25.4 mm)
Description	Sets the top margin of the logical page.

Variable	LPARM:LINEPRINTER BOTTOMMARGIN
Choices/ Range	0–79200 centipoints (1 centipoint=1/7200 inches or 0.003528 mm)
Default	7200 (= 1 inch or 25.4 mm)
Description	Sets the bottom margin of the logical page.

Variable	LPARM:LINEPRINTER LEFTMARGIN
Choices/ Range	0–79200 centipoints (1 centipoint=1/7200 inches or 0.003528 mm)
Default	7200 (= 1 inch or 25.4 mm)
Description	Sets the left margin of the logical page.

Variable	LPARM:LINEPRINTER RIGHTMARGIN
Choices/ Range	0–79200 centipoints (1 centipoint=1/7200 inches or 0.003528 mm)
Default	7200 (= 1 inch or 25.4 mm)
Description	Sets the right margin of the logical page.

Variable	LPARM:LINEPRINTER NUMBERLINES
Choices/ Range	NO YES
Default	NO
Description	Enables and disables line numbering.

Variable	LPARM:LINEPRINTER POINTSIZE
Choices/ Range	400-99975
Default	1200
Description	Identifies the point size of the font (in centipoints).

Variable	LPARM:LINEPRINTER TABS
Choices/ Range	0-256
Default	8
Description	Identifies the number of spaces between tab stops.

Variable	LPARM:PCL FONTNUMBER
Choices/ Range	0-65535(dependent on FONTSOURCE and SYMSET--see note)
Default	0
Description	Selects the PCL font to be used for the current job. This variable is used with the FONTSOURCE variable to identify the specific font to be used. *Font numbers start at 0 if a font is set as default; otherwise, font numbering starts at 1.* The recommended order of setting the variables affecting the font is SYMSET, FONTSOURCE, and then FONTNUMBER.

Variable	LPARM:PCL FONTSOURCE
Choices/ Range	I S
Default	I
Description	This variable identifies the source of the fonts to be used. I — Internal Fonts S — Permanent Soft Fonts

Variable	LPARM:PCL LINETERMINATION
Choices/ Range	0 1 2 3
Default	2
Description	Sets the line termination value. 0—CR=CR, LF=LF, FF=FF 1—CR=CR-LF, LF=LF, FF=FF 2—CR=CR, LF=CR-LF, FF=CR-FF 3—CR=CR-LF, LF=CR-LF, FF=CR-FF

Variable	LPARM:PCL PCLLINETERMINATION
Choices/ Range	CRISCRLFISLF CRISCRLFLFISLF CRISCRLFISCRLF CRISCRLFLFISCRLF
Default	CRISCRLFISCRLF
Description	Sets the line termination value.

Variable	LPARM:PCL PITCH
Choices/ Range	0.44-99.99 cpi
Default	2
Description	Controls the font pitch in characters per inch (cpi). The font must be a fixed-pitch scalable font.
Notes	cpi = characters per inch.

Variable	LPARM:PCL PTSIZE
Choices/ Range	4.00-999.75 cpi
Default	12.00
Description	Identifies the height for the default font. The font must be a proportional, scable font.
Notes	cpi = characters per inch.

Variable	LPARM:PCL SYMSET
Choices/ Range	DESKTOP ISO4 ISO6 ISO11 ISO15 ISO17 ISO21 ISO60 ISO69 ISOL1 ISOL2 ISOL5 ISOL6 ISOL9 LEGAL MATH8 MCTEXT MSPUBL PC775 PC8 PC850 PC852 PC8DN PC8TK PC1004 PIFONT PSMATH PSTEXT ROMAN8 VNINTL VNMATH VNUS WIN30 WINBALT WINL1

Choices/ Range (continued)	WINL2 WINL5 WIN3J PC862HEB ISOHEB HEBREW8 HEBREW7 PC864ARA ARABIC8 HPWARA ISOCYR PC866CYR PC866UKR WINCYR GREEK8 WINGRK PC851GRK PC8GRK ISOGRK	
Default	PC8	
Description	Sets the symbol set to be used.	

Variable	**LPARM:POSTSCRIPT COLORMATCHING**
Choices/ Range	YES NO
Default	YES
Description	Enables and disables the color matching.

Variable	**LPARM:POSTSCRIPT KPRESERVE**
Choices/ Range	YES NO
Default	NO
Description	Enables and disables K preserving links.

Variable	LPARM:POSTSCRIPT PRTPSERRS
Choices/ Range	OFF ON
Default	ON
Description	Enables and disables the PostScript error page.

Variable	LPARM:POSTSCRIPT RGBBLACK
Choices/ Range	BLACKANDGRAY BLACKONLY COMPOSITEBLACK
Default	BLACKANDGRAY
Description	Specifies how RGB black mapping is performed.

Variable	LPARM:POSTSCRIPT RGBSRCPROFILEG
Choices/ Range	APPLE BRGB COLORMATCH NONE PREPRESS SRGB VIVID
Description	Selects the RGB source profile for graphics.
Default	VIVID

Variable	LPARM:POSTSCRIPT RGBSRCPROFILEI
Choices/ Range	APPLE BRGB COLORMATCH NONE PREPRESS SRGB VIVID
Default	SRGB
Description	Selects the RGB source profile for images.

Variable	LPARM:POSTSCRIPT SIMULATIONPROFILE
Choices/ Range	NONE SWOP EURO DIC COMM TOYO
Default	NONE
Description	Selects the simulation profile.

Variable	LPARM:POSTSCRIPT SIMINRGBLINKS
Choices/ Range	YES NO
Default	NO
Description	Enables and disables the RGB sim links.

Variable	MEDIASOURCE
Choices/ Range	TRAY0 TRAY1 TRAY2 TRAY3 TRAY4 TRAY5 TRAY6 TRAY7 TRAY8 TRAY9
Default	TRAY1
Description	Controls the tray selection for the current job. Use TRAYCHAINING to set tray switching.

Variable	MEDIATYPE
Choices/ Range	LABELS PAPER THICKSTOCK TRANSPARENCY
Default	PAPER
Description	Sets the default media type for the current job.

Variable	MODELNAME
Choices/ Range	<*string*>
Default	magicolor 2350
Description	Identifies the printer model.

Variable	NOTIFY
Choices/ Range	JOBEND
Default	<N/A>
Description	Identifies the point in processing that triggers email notification.

Variable	OPTIMIZEPCL
Choices/ Range	QUALITY SPEED
Default	SPEED
Description	Identifies the default PCL halftone to be used.

Variable	ORIENTATION
Choices/ Range	LANDSCAPE PORTRAIT
Default	PORTRAIT
Description	Identifies the page orientation.

Variable	OUTBIN
Choices/ Range	UPPER
Default	UPPER
Description	Identifies the default output bin.

Variable	OUTTONER
Choices/ Range	STOP CONTINUE
Default	CONTINUE
Description	Identifies how the printer is configured to react during a print job when a toner out condition occurs. If set to STOP, the printer halts printing when the toner out condition occurs. If set to CONTINUE, the printer generates a toner out message but continues printing when a toner out condition occurs.

Variable	PAPER	
Choices/ Range	A4 A5 B5 C5 C6 CHINESE16K CHINESE32K CHOKEI3 CHOKEI4 COM10 CUSTOM DL EXECUTIVE FOLIO FOOLSCAP GOVTLEGAL GOVTLETTER JISB5 JPOST LEGAL LETTER MONARCH SPFOLIO STATEMENT UKQUARTO	
Default	110 Volt	LETTER
	220 Volt	A4
Description	Identifies the default physical paper size.	

Variable	PASSWORD
Choices/ Range	0-65535
Default	"0"
Description	Identifies the default password for PJL jobs.

Variable	PERSONALITY
Choices/ Range	AUTO HEXDUMP* PCL PCLXL PDF POSTSCRIPT LINEPRINTER
Default	AUTO
Description	This variable identifies the personality for implicit switching. Implicit switching changes the current personality without using the @PJL ENTER command. *Selecting AUTO allows the printer to search for context clues in the job to decide which personality to assume.*
Notes	*Hexdump is valid until you reboot.

Variable	PLANESINUSE
Choices/ Range	1 (monochrome) 3 (color) 4 (color)
Default	4
Description	Identifies the number of planes of data in a job. *Choices 3 and 4 are treated the same on the magicolor 2350.*

Variable	POWERSAVE
Choices/ Range	OFF ON
Default	ON
Description	Enables (ON) or disables (OFF) the power saving feature of the printer.

Variable	POWERSAVETIME
Choices/ Range	1 15 30 60 120* 180*
Default	30 minutes
Description	Controls the power saving feature of the printer by identifying the time of printer inactivity that triggers the power save feature.
Notes	*110 V only.

Variable	PRINTQUALITY
Choices/ Range	DRAFT (600x600 dpi monochrome) NORMAL (600x600 dpi color) ENHANCED (1200x1200 dpi color [PCL]) HIGH (600x600 dpi color with contone imaging mode, or 9600X600 dpi class [PostScript])
Default	ENHANCED
Description	Controls the print quality settings of the printer for the current job.

Variable	QTY*
Choices/ Range	1-999
Default	1
Description	Identifies the number of collated copies for the current job. Use the COPY variable for uncollated copies.
Notes	*Requires hard disk.

Variable	REPRINT
Choices/ Range	OFF ON
Default	ON
Description	Sets the printer's action after a media jam. When ON is selected, the printer reprints any of the pages that were jammed. *This feature depends on printer memory availability—if there isn't enough free memory to hold the jammed pages, the pages are not reprinted.*

Variable	RESOLUTION
Choices/ Range	600 1200
Default	600
Description	Sets the printing resolution in dots per inch (dpi) for the current job.

Variable	TIMEOUT
Choices/ Range	0-999 (seconds)
Default	15
Description	Sets the time interval that the printer waits to receive data for the current print job. If the wait time exceeds the value set, the job ends and the printer is ready to accept other jobs. *0 = no time out.*

Variable	TRAYCHAIN
Choices/ Range	OFF ON
Default	ON
Description	Enables or disables tray chaining. When ON is selected, the printer uses an alternate media tray as the media source when the primary tray is empty. *Tray chaining occurs only if the alternate tray has the correct media size and type installed.*

Variable	TRAYMAPPING
Choices/ Range	OFF ON
Default	ON
Description	Sets tray mapping to enabled (ON) or disabled (OFF).
Notes	Only supported with optional lower feeder unit and Tray 2.

Variable	**USERNAME**
Choices/ Range	`String (up to 64 printable characters—enclose in double-quotes)`
Default	<N/A>
Description	Identifies the user name for Proof then Print jobs.

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Status Codes— 2.2

Introduction

This chapter describes the status codes that are returned following the transmission of @PJL INFO STATUS and USTATUS commands to the printer.

Status Codes

Category	Keypad Message	Status Code
Standard	MAGICOLOR 2350 IDLE	10001
	WARMING UP	10003
	INITIALIZING	10004
	ENERGY SAVER	35078
	CANCELLING JOB	10007
	PROCESSING	10023
	COPYING	10023
	PRINTING	10023
	FIRMWARE UPDATE SELECTED	None
	FIRMWARE UPDATE WRITING IMAGE	None
	FIRMWARE UPDATE DOWNLOAD IMAGE	None
	FIRMWARE UPDATE FORMATTING	None
	UPDATE FIRMWARE READING HEADER	None
	UPDATE FIRMWARE READING IMAGE	None
	STARTING SYSTEM	None
	CALIBRATING	10031

Category	Keypad Message	Status Code
Warning	OPC DRUM LOW	10006
	CYAN LOW	10006
	MAGENTA LOW	10006
	BLACK LOW	10006
	YELLOW LOW	10006
	BLACK EMPTY	10006
	YELLOW EMPTY	10006
	MAGENTA EMPTY	10006
	CYAN EMPTY	10006
	WASTE TONER NEAR FULL	10006
	DISK NEAR FULL	10006
	TRAY2 OPEN	12201
	TIME OF DAY CLOCK FAILURE	10001
	EMAIL ERROR EVENT NOTIFY	10001
	EMAIL ERROR ACC DATA TRANS	10001
	NETWORK CONFIG ERROR	10001
Caution	EMAIL NOTIFY ERROR JOB-END	10001
	MEDIA MISMATCH	10001
	PAPER MISMATCH	10001
Operator Call	CYAN LOW	40038
	MAGENTA LOW	40038
	BLACK LOW	40038
	YELLOW LOW	40038
	BLACK EMPTY	40038
	YELLOW EMPTY	40038
	MAGENTA EMPTY	40038
	CYAN EMPTY	40038
	PAPER JAM TRAY1	40022
	PAPER JAM TRAY2	40022

Category	Keypad Message	Status Code
Operator Call (continued)	PAPER JAM DUPLEX	40022
	PAPER JAM TRANSFER	40022
	PAPER JAM FUSER	40022
	PAPER JAM EXIT	40022
	AIDC ERROR	40005
	TRAY OPEN	40026
	PUT_X_IN_Y	41000
	OPC DRUM MISSING	40010
	WASTE TONER MISSING	40010
	CYAN TONER MISSING	40010
	MAGENTA TONER MISSING	40010
	BLACK TONER MISSING	40010
	YELLOW TONER MISSING	40010
	MAIN UNIT COVER OPEN	40021
	TRAY2 PATH COVER OPEN	40021
	REPLACE OPC DRUM	40141
	REPLACE WASTE TONER	40141
	DISK ACCESS ERROR ACCOUNTING	40083
	DISKFULL	32002
	DOWNLOAD IMAGE TO ENET PORT	50500
	ERROR LOADING FIRMWARE	50500
	FIRMWARE UPDATE FORMAT ERROR	50500
	FIRMWARE UPDATE INVALID IMAGE	50500

Category	Keypad Message	Status Code
Service Call	SERVICE CALL 04 ENGINE BOARD	50007
	SERVICE CALL 05 FLASH ROM	50001
	SERVICE CALL 08 MAIN MOTOR	50000
	SERVICE CALL 0B XFER FAN	50006
	SERVICE CALL 0C PWR SUPPLY FAN	50006
	SERVICE CALL 0E SUCTION FAN	50006
	SERVICE CALL 10 LASER UNIT	50000
	SERVICE CALL 12 LASER UNIT	50000
	SERVICE CALL 14 XFER ROLLER	50000
	SERVICE CALL 15 XFER BELT	50000
	SERVICE CALL 16 XFER BELT	50000
	SERVICE CALL 17 TONER RACK	50000
	SERVICE CALL 18 FUSER UNIT	50003
	SERVICE CALL 19 FUSER UNIT	50003
	SERVICE CALL 1A FUSER UNIT	50003
	SERVICE CALL 1B FUSER UNIT	50003
	SERVICE CALL 21 TRANS DET SENS	50000
	SERVICE CALL 29 MEM MALF COUNTER	50002
	SERVICE CALL 2A MEM MALF DATA	50002
	SERVICE CALL 2B MEM MALF ACCESS	50002
	FIRMWARE UPDATE WRITING ERROR	50002
	FIRMWARE UPDATE FLASHING ERROR	50002
	NETWORK FATAL ERROR	50510

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PJL/DOC Matrix— 2.3

Introduction

This chapter is for users making the transition from DOC commands to PJL commands. In this chapter you'll find common DOC commands and their nearest equivalent in PJL commands. For information on PJL commands referenced in this chapter, see Chapter 2.1 "PJL Commands."

DOC/PJL Command Matrix

Not all DOC commands have an equivalent PJL command. If there is no PJL equivalent for a DOC command, **Unsupported** *appears in the* PJL *column.*

Unless otherwise noted, start all PJL command lines with @PJL (for example, @PJL SET CHARGENUMBER).

Header/Trailer Page Commands	
DOC	**PJL**
%%IncludeFeature:header	Unsupported
%%IncludeFeature:trailer	Unsupported

Header/Trailer Information Commands	
DOC	**PJL**
%%Charge Number	SET CHARGENUMBER
%%Creator	Unsupported
%%CreationDate	Unsupported
%%Date	Unsupported
%%For	SET USERNAME
%%Host	SET HOST
%%Title	JOB NAME or SET JOB NAME
%%Version	Unsupported

Document Control Commands	
DOC	**PJL**
%%IncludeFeature	@PJL
%%Pages	Unsupported

Document Control Commands	
DOC	**PJL**
%%Pages	Unsupported
%%EndComments	Unsupported
%%EndOfDocument	<ESC>%-12345X
<ESC>%-12345X	<ESC>%-12345X
%%Sessions	JOB
%%Notify	SET NOTIFY=JOBEND SET EMAILADDRESS
Notes:	Use @PJL by itself on a command line.

Document Formatting Commands	
DOC	**PJL**
%%IncludeFeature:booklet	Unsupported
%%IncludeFeature:collate	SET QTY
%%IncludeFeature:colormodel	SET RENDERMODE or SET PLANESINUSE
%%IncludeFeature:copies	SET COPIES
%%IncludeFeature:duplex	SET DUPLEX
%%IncludeFeature:emulation	ENTER LANGUAGE
%%IncludeFeature:input	SET MEDIASOURCE
%%IncludeFeature:mediatype	SET MEDIATYPE
%%IncludeFeature:newlayout	JOB
%%IncludeFeature:offset	Unsupported
%%IncludeFeature:orientation	SET ORIENTATION
%%IncludeFeature:output	Unsupported
%%IncludeFeature:pagegrid	Unsupported
%%IncludeFeature:pageoffsets	Unsupported
%%IncludeFeature:pageorientation	Unsupported
%%IncludeFeature:pagerange	JOB START=# END=#
%%IncludeFeature:pagescaling	Unsupported
%%IncludeFeature:pagesize	Unsupported

Document Formatting Commands	
DOC	**PJL**
%%IncludeFeature:quality	SET PRINTQUALITY
%%IncludeFeature:resolution	SET RESOLUTION
%%IncludeFeature:staple	Unsupported

HP PCL Commands	
DOC	**PJL**
%%IncludeFeature:criscrlf	LPARM:PCL SET LINETER-MINATION
%%IncludeFeature:font	Unsupported
%%IncludeFeature:install	Unsupported*
%%IncludeFeature:lfiscrlf	LPARM:PCL SET LINETER-MINATION
%%IncludeFeature:pointsize	LPARM:PCL SET PTSIZE
%%IncludeFeature:remove	Unsupported*
%%IncludeFeature:symbolset	LPARM:PCL SET SYMSET
Notes:	*Use Download Manager.

Lineprinter Commands	
DOC	**PJL**
%%IncludeFeature:autowrap	LPARM:LINEPRINTER SET AUTOWRAP
%%IncludeFeature:criscrlf	LPARM:LINEPRINTER SET LINETERMINATION
%%IncludeFeature:ffiscrlf	LPARM:LINEPRINTER SET LINETERMINATION
%%IncludeFeature:font	LPARM:LINEPRINTER SET FONTNAME
%%IncludeFeature:linesperpage	LPARM:LINEPRINTER SET LINESPERPAGE
%%IncludeFeature:lpmargins	LPARM:LINEPRINTER SET MARGINS
%%IncludeFeature:lporientation	LPARM:LINEPRINTER SET LPORIENTATION
%%IncludeFeature:lsiscrlf	LPARM:LINEPRINTER SET LINETERMINATION

Lineprinter Commands	
DOC	**PJL**
%%IncludeFeature:map	LPARM:LINEPRINTER SET CHARMAP
%%IncludeFeature:number	LPARM:LINEPRINTER SET NUMBERLINES
%%IncludeFeature:pointsize	LPARM:LINEPRINTER SET PTSIZE
%%IncludeFeature:tabs	LPARM:LINEPRINTER SET TABS

CALS Commands	
DOC	**PJL**
%%IncludeFeature:autorotation	Unsupported
%%IncludeFeature:autorotation	Unsupported
%%IncludeFeature:autoscaling	Unsupported

TIFF Commands	
DOC	**PJL**
%%IncludeFeature:autoscaling	Unsupported
%%IncludeFeature:sheetsel	Unsupported
%%IncludeFeature:tag	Unsupported

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